IS 5914 (Part 14) : 202X ISO 17074 : 2006

Doc : CHD 17 (28698)WC September 2025

### **BUREAU OF INDIAN STANDARDS**

### DRAFT FOR COMMENTS ONLY

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# भारतीय मानक मसौदा

# चमडे के भौतिक परीक्षण की पद्धतियाँ

भाग 14 लौ के क्षैतिज प्रसार के प्रतिरोध का निर्धारण

## Draft Indian Standard

# **Methods of Physical Testing of Leather**

Part 14 Determination of resistance to horizontal spread of flame

(ICS 59.140.30)

Leather, Tanning Materials and Allied Products, Sectional Committee, CHD 17

Last Date for Comments: 14th November

2025

Leather, Tanning Materials and Allied Products, Sectional Committee, CHD 17

### NATIONAL FOREWORD

(Formal clause will be added later)

IS 5914: 1970 Methods of physical testing of leather prescribes the methods for carrying out physical tests for all types of leathers. The Committee responsible for formulating this standard has decided to harmonize the methods of test prescribed in IS 5914 with those prescribed in ISO/IULTCS standards. Accordingly, the committee decided to retain IS 5914 and publish the harmonized/ adopted test methods published by ISO/IULTCS in various parts of IS 5914 as this standard is widely recognized by the Indian Leather Industry

The committee had further decided to publish the adopted/harmonized standards in the following manner:

- a) Wherever an existing test method is being replaced by the corresponding ISO/IULTCS test method, the relevant part will be published as revision with the information in the National Foreword about the method of IS 5914 being superseded. And
- b) When a new test method is being incorporated in IS 5914, the same will be published as a new standard and as subsequent part/section of IS 5914.

The technical committee responsible for formulation of this standard has decided to publish the latest version of ISO 17074: 2006 'Leather — Physical and mechanical tests — Determination of resistance to

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horizontal spread of flame' as IS 5914 Part 14.

This Part 14 specifies a method for determining the horizontal burning rate of leather. It is applicable to all light leathers but is particularly intended for leathers used in the passenger compartment of motor vehicles.

This standard has been published in several other parts. The other parts of this series are:

- Part 1 Determination of water vapour absorption
- Part 2 Determination of abrasion resistance
  - Sec 1 Taber method
  - Sec 2 Martindale ball plate method
- Part 3 Determination of soiling
  - Sec 1 Rubbing (martindale) method
  - Sec 2 Tumbling method
- Part 4 Determination of apparent density and mass per unit area
- Part 5 Determination of tear load
  - Sec 1 Single edge tear
  - Sec 2 Double edge tear
- Part 6 Determination of flex resistance
  - Sec 1 Flexometer method
  - Sec 2 Vamp flex method
- Part 7 Determination of resistance to grain cracking and grain crack index
- Part 8 Determination of tensile strength and percentage elongation
- Part 9 Determination of heat resistance of patent leather
- Part 10 Determination of surface coating thickness
- Part 11 Determination of thickness
- Part 12 Determination of water vapour permeability
- Part 13 Determination of softness
- Part 15 Determination of water resistance of heavy leathers (under preparation)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

- a) Wherever the words `International Standard' appear referring to this standard, they should be read as `Indian Standard'
- b) Comma (,) has been used as a decimal marker in the International Standard, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their places, are listed below along with their degree of equivalence for the editions indicated:

International Standard	Corresponding Indian Standard	Degree of Equivalence
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ISO 2418 — Leather — Chemical, physical, mechanical and fastness tests — Position and preparation of specimens for testing		Identical with ISO 2418: 2023
ISO 2419 — Leather — Physical and mechanical tests —Specimen and test piece conditioning		Identical with ISO 2419:2024
ISO 2589 — Leather — Physical and mechanical tests — Determination of thickness	IS 5914 (Part 11): 2025/ISO 2589: 2016 Methods of Physical Testing of Leather Part 11 Determination of Thickness	Identical with ISO 2589 : 2016
ISO 3795 : 1989 — Road Vehicles and Tractors and Machinery for Agriculture and Forestry - Determination of Burning Behaviour of Interior Materials	IS/ISO 3795: 1989 Road Vehicles and Tractors and Machinery for Agriculture and Forestry - Determination of Burning Behaviour of Interior Materials	Identical with ISO 3795 : 1989

In this adopted standard, reference appears to certain International Standards where the standard atmospheric conditions to be observed are stipulated which are not applicable to tropical/subtropical countries. The applicable standard atmospheric conditions for Indian conditions are 27 °C  $\pm$  2 °C and (65  $\pm$  5) percent, relative humidity and shall be observed while using this standard.

In reporting the result of a test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2: 2022. 'Rules for rounding off numerical values (second revision)'.